# HILLYARD The Cleaning Resource\*

# SAFETY DATA SHEET

## 1. Identification

Product identifier SUPROX-D

Other means of identification

 SDS number
 554N-27C

 Product code
 HIL00714

 Product registration
 1839-224-1658

number

 Recommended use
 Disinfectant/Cleaner

 Recommended restrictions
 For Labeled Use Only

 Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name HILLYARD INDUSTRIES

Address 302 North Fourth St.

St. Joseph, MO 64501

Contact person Regulatory Affairs

**Telephone number** (816) 233-1321 (Ext. 8285)

Fax (816) 383-8485

**E-mail** regulatoryaffairs@hillyard.com

**Emergency telephone #** (800) 424-9300

(Only in the event of chemical emergency involving a spill, leak, fire, exposure or

accident involving chemicals)

# 2. Hazard(s) identification

Physical hazardsFlammable liquidsCategory 4Health hazardsSkin corrosion/irritationCategory 1Serious eye damage/eye irritationCategory 1Specific target organ toxicity, repeatedCategory 2

exposure

Environmental hazards Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Combustible liquid. Causes severe skin burns and eye damage. Causes serious eye damage.

May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with

Category 2

long lasting effects.

**Precautionary statement** 

**Prevention** Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash

thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection.

Material name: SUPROX-D

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all Response

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to

extinguish. Collect spillage.

Storage Store in a well-ventilated place. Keep cool. Store locked up.

Buyer assumes all risk and liability associated with disposal of this product (original concentration Disposal

or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements. CONTAINER DISPOSAL: Triple rinse (or equivalent), then offer clean, dry

container for recycling or reconditioning.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Hydrogen Peroxide		7722-84-1	5 - 10%
Alkyl dimethyl benzyl ammonium chloride (C12-16)		68424-85-1	2.304%
Octyl decyl dimethyl ammonium chloride		32426-11-2	1.728%
Didecyl dimethyl ammonium chloride		7173-51-5	0.864%
Dioctyl dimethyl ammonium chloride		5538-94-3	0.864%
Other components below reportable I	evels		86.71

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or Skin contact

poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special

treatment needed

**General information** 

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Material name: SUPROX-D SDS US 2/8 Use standard firefighting procedures and consider the hazards of other involved materials.

Combustible liquid.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Should not be released into the environment. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. CONTAINER STORAGE – Keep product under locked storage, inaccessible to children.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Components	Туре	Value	
Hydrogen Peroxide (CAS 7722-84-1)	PEL	1.4 mg/m3	
,		1 ppm	
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Type	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Type	Value	
Hydrogen Peroxide (CAS 7722-84-1)	TWA	1.4 mg/m3	
,		1 ppm	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical safety goggles when working with concentrate.

Material name: SUPROX-D

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Impervious boots and aprons where splashing of concentrate is a problem; otherwise, use Other

uniforms or coveralls.

Not normally required with adequate ventilation. Respiratory protection

Thermal hazards None known.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Clear, colorless liquid **Appearance** 

Physical state Liquid. **Form** Liquid. Color Colorless

Odor Non-objectional odor

**Odor threshold** Not available

1.7 - 2.7 concentrate

Not applicable / Not available Melting point/freezing point

Initial boiling point and boiling

range

Flash point

> 160.0 °F (> 71.1 °C) Tag Closed Cup

206 °F (96.67 °C) Corr.

**Evaporation rate** < 1 Ethyl ether = 1 Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure 17.65 mm Hg 0.6323 Air=1 Vapor density Relative density 1.0196 at 77°F

Solubility(ies)

100 % Complete Solubility (water) Not available Partition coefficient

(n-octanol/water)

**Auto-ignition temperature** Not available Not available **Decomposition temperature** Not available **Viscosity** 

Other information

8.49 lb/gal Density **Explosive properties** Not explosive. Oxidizing properties Not oxidizing 93 - 94 % Percent volatile 0.72 %

## 10. Stability and reactivity

Reactivity Reacts violently with strong alkaline substances. This product may react with reducing agents.

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the Conditions to avoid

flash point. Contact with incompatible materials. Do not mix with other chemicals.

Bases. Reducing agents. Incompatible materials

Material name: SUPROX-D SDS US Hazardous decomposition

products

No hazardous decomposition products are known.

## 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. May cause

irritation to the respiratory system.

Skin contact Causes severe skin burns. **Eve contact** Causes serious eye damage. Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

#### Information on toxicological effects

**Acute toxicity** Not known.

Product Species		Test Results
SUPROX-D		
<u>Acute</u>		
Inhalation		
LC50	Mouse	5417 mg/l, 4 Hours estimated
Oral		
LD50	Guinea pig	778 g/kg estimated
	Mouse	29133 mg/kg estimated
	Rat	9645 mg/kg estimated
Components	Species	Test Results

Didecyl dimethyl ammonium chloride (CAS 7173-51-5)

**Acute** Dermal

LD50 Rabbit 2730 mg/kg

Oral

**LD50** Mouse 268 mg/kg Rat 84 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eve damage/eve

irritation

Causes serious eye damage.

## Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

### IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen Peroxide (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Material name: SUPROX-D SDS US

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** 

Prolonged inhalation may be harmful.

**Chronic effects** 

May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may

be harmful.

## 12. Ecological information

**Ecotoxicity** 

Toxic to aquatic life with long lasting effects. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic

systems.

Product		Species	Test Results
SUPROX-D			
Aquatic			
Fish	LC50	Fish	74.0719 mg/l, 96 hours estimated
Components		Species	Test Results
Alkyl dimethyl benzyl	ammonium chloride	(C12-16) (CAS 68424-85-1)	
Aquatic			
Fish	LC50	Striped bass (Morone saxatilis)	10.4 - 19.1 mg/l, 96 hours
Didecyl dimethyl amn	nonium chloride (CA	S 7173-51-5)	
Aquatic			
Fish	LC50	White sturgeon (Acipenser transmontanus)	0.001 - 0.01 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess

pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for

guidance.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary

landfill.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Material name: SUPROX-D SDS US

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

# 15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Hydrogen Peroxide (CAS 7722-84-1)

1000 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

**CAS** number **Chemical name** Reportable **Threshold** Threshold **Threshold** quantity planning quantity planning quantity, planning quantity, (pounds) (pounds) lower value upper value (pounds) (pounds)

1000 Hydrogen Peroxide 7722-84-1 1000 No

SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Safe Drinking Water Act

(SDWA)

Not regulated.

Material name: SUPROX-D SDS US

HIL00714 Version #: 02 Revision date: 09-02-2016 Issue date: 04-28-2015

#### **FIFRA Information**

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-224-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS. DANGER Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or inhaled. Do not get in eyes, on skin or on clothing. Wear eye protection (goggles, safety glasses with side shields, or face shield). Wear coveralls worn over long-sleeved shirts and long pants, chemical resistant gloves, socks, and chemical resistant footwear. Avoid contamination of food. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### KEEP OUT OF REACH OF CHILDREN.

DANGER.

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

#### **US** state regulations

#### **US. California Proposition 65**

United States & Puerto Rico

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region Inventory name

On inventory (yes/no)\*

168

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

## 16. Other information, including date of preparation or last revision

 Issue date
 04-28-2015

 Revision date
 09-02-2016

Version # 02

HMIS® ratings Health: 3\*

Flammability: 2 Physical hazard: 0

#### Disclaimer

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**Revision information** 

This document has undergone significant changes and should be reviewed in its entirety.

Material name: SUPROX-D SDS US